

# Dano Ja Roelvink

## List of Publications by Year in descending order

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115  
papers

7,765  
citations

81839

39  
h-index

51562

86  
g-index

128  
all docs

128  
docs citations

128  
times ranked

3886  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling the Morphodynamics of Coastal Responses to Extreme Events: What Shape Are We In?. <i>Annual Review of Marine Science</i> , 2022, 14, 457-492.	5.1	38
2	Modeling the Morphodynamic Response of Estuarine Intertidal Shoals to Sea-Level Rise. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	1.0	8
3	Wave attenuation potential, sediment properties and mangrove growth dynamics data over Guyana's intertidal mudflats: assessing the potential of mangrove restoration works. <i>Earth System Science Data</i> , 2022, 14, 2445-2462.	3.7	7
4	Simulating Destructive and Constructive Morphodynamic Processes in Steep Beaches. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 86.	1.2	12
5	Development and Validation of Quasi-Eulerian Mean Three-Dimensional Equations of Motion Using the Generalized Lagrangian Mean Method. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 76.	1.2	3
6	Eleven Years of Mangrove-Mudflat Dynamics on the Mud Volcano-Induced Prograding Delta in East Java, Indonesia: Integrating UAV and Satellite Imagery. <i>Remote Sensing</i> , 2021, 13, 1084.	1.8	14
7	A semi-empirical method for computing storm surges on open coasts during tropical cyclones. <i>Coastal Engineering</i> , 2021, 165, 103839.	1.7	4
8	Relationship between Three-Dimensional Radiation Stress and Vortex-Force Representations. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 791.	1.2	1
9	Process-based modeling deriving a long-term sediment budget for the Ganges-Brahmaputra-Meghna Delta, Bangladesh. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 260, 107509.	0.9	8
10	Predicting ship waves in sheltered waterways – An application of XBeach to the Stockholm Archipelago, Sweden. <i>Coastal Engineering</i> , 2021, 170, 104026.	1.7	10
11	A Model-Derived Empirical Formulation for Wave Run-Up on Naturally Sloping Beaches. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 1185.	1.2	4
12	Morphologic modelling of tidal inlet on a barrier-lagoon coast: Case study of the Laolonggou tidal inlet in the Bohai Bay. <i>Applied Ocean Research</i> , 2020, 94, 101967.	1.8	8
13	Morphodynamic modelling of the wilderness breach, Fire Island, New York. Part I: Model set-up and validation. <i>Coastal Engineering</i> , 2020, 157, 103621.	1.7	29
14	Bank Erosion Processes in Regulated Navigable Rivers. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005441.	1.0	16
15	Spatial Topographic Interpolation for Meandering Channels. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2020, 146, .	0.5	7
16	Flooding in the Mekong Delta: the impact of dyke systems on downstream hydrodynamics. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 189-212.	1.9	17
17	Efficient Modeling of Complex Sandy Coastal Evolution at Monthly to Century Time Scales. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	42
18	Morphodynamic Evolution of a Fringing Sandy Shoal: From Tidal Levees to Sea Level Rise. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005397.	1.0	8

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19	The mean suspended sediment concentration profile of silty sediments under wave-dominant conditions. <i>Continental Shelf Research</i> , 2019, 186, 111-126.	0.9	4
20	Contribution of Infragravity Waves to Run-up and Overwash in the Pertuis Breton Embayment (France). <i>Journal of Marine Science and Engineering</i> , 2019, 7, 205.	1.2	19
21	Sediment transport and morphodynamical modeling on the estuaries and coastal zone of the Vietnamese Mekong Delta. <i>Continental Shelf Research</i> , 2019, 186, 64-76.	0.9	40
22	Numerical modelling of the erosion of marsh boundaries due to wave impact. <i>Coastal Engineering</i> , 2019, 152, 103514.	1.7	19
23	Assessing Beach and Dune Erosion and Vulnerability Under Sea Level Rise: A Case Study in the Mediterranean Sea. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	29
24	Intertidal Area Disappears Under Sea Level Rise: 250 Years of Morphodynamic Modeling in San Pablo Bay, California. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 38-59.	1.0	25
25	Coupling nearshore and aeolian processes: XBeach and duna process-based models. <i>Environmental Modelling and Software</i> , 2019, 115, 98-112.	1.9	53
26	Morphodynamic Resilience of Intertidal Mudflats on a Seasonal Time Scale. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 8290-8308.	1.0	8
27	ICON.NL: COASTLINE OBSERVATORY TO EXAMINE COASTAL DYNAMICS IN RESPONSE TO NATURAL FORCING AND HUMAN INTERVENTIONS. , 2019, , .		0
28	CONTROLLING SWASH ZONE SLOPE IS KEY TO BEACH PROFILE MODELLING. , 2019, , .		3
29	Infragravity waves: From driving mechanisms to impacts. <i>Earth-Science Reviews</i> , 2018, 177, 774-799.	4.0	165
30	Nonhydrostatic and surfbeat model predictions of extreme wave run-up in fringing reef environments. <i>Coastal Engineering</i> , 2018, 137, 11-27.	1.7	55
31	Improving predictions of swash dynamics in XBeach: The role of groupiness and incident-band runup. <i>Coastal Engineering</i> , 2018, 134, 103-123.	1.7	114
32	Assessing climate change impacts on the stability of small tidal inlets: Part 2 - Data rich environments. <i>Marine Geology</i> , 2018, 395, 65-81.	0.9	26
33	Tide circulation patterns in a coastal lagoon under sea-level rise. <i>Ocean Dynamics</i> , 2018, 68, 1121-1139.	0.9	24
34	Modelling and analysis on high sediment concentration layer of fine sediments under wave-dominated conditions. <i>Coastal Engineering</i> , 2018, 140, 205-231.	1.7	6
35	Do salt marshes survive sea level rise? Modelling wave action, morphodynamics and vegetation dynamics. <i>Environmental Modelling and Software</i> , 2018, 109, 152-166.	1.9	81
36	Sediment transport in the presence of large reef bottom roughness. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 1347-1368.	1.0	38

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37	How can climate change and engineered water conveyance affect sediment dynamics in the San Francisco Bay-Delta system?. Climatic Change, 2017, 142, 375-389.	1.7	16
38	Mudflat Morphodynamics and the Impact of Sea Level Rise in South San Francisco Bay. Estuaries and Coasts, 2017, 40, 37-49.	1.0	36
39	Operational prediction of rip currents using numerical model and nearshore bathymetry from video images. AIP Conference Proceedings, 2017, , .	0.3	1
40	Modelling suspended sediment dynamics on the subaqueous delta of the Mekong River. Continental Shelf Research, 2017, 147, 213-230.	0.9	41
41	On incipient motion of silt-sand under combined action of waves and currents. Applied Ocean Research, 2017, 69, 116-125.	1.8	18
42	Assessing climate change impacts on the stability of small tidal inlets: Part 1 - Data poor environments. Marine Geology, 2017, 390, 331-346.	0.9	25
43	Modeling the Process Response of Coastal and Deltaic Systems to Human and Global Changes: Focus on the Mekong System. Oceanography, 2017, 30, 84-97.	0.5	7
44	Exploring the impacts of multiple tidal constituents and varying river flow on long-term, large-scale estuarine morphodynamics by means of a 1D model. Journal of Geophysical Research F: Earth Surface, 2016, 121, 1000-1022.	1.0	38
45	Modeling centuries of estuarine morphodynamics in the Western Scheldt estuary. Geophysical Research Letters, 2016, 43, 3839-3847.	1.5	55
46	Modeling the effect of wave-vegetation interaction on wave setup. Journal of Geophysical Research: Oceans, 2016, 121, 4341-4359.	1.0	67
47	Suspended sediment dynamics in a tidal channel network under peak river flow. Ocean Dynamics, 2016, 66, 703-718.	0.9	8
48	How did the AD 1755 tsunami impact on sand barriers across the southern coast of Portugal?. Geomorphology, 2016, 268, 296-311.	1.1	28
49	Coastal lagoons and rising sea level: A review. Earth-Science Reviews, 2016, 154, 356-368.	4.0	74
50	Assessing climate change impacts on the stability of small tidal inlet systems: Why and how?. Earth-Science Reviews, 2016, 154, 369-380.	4.0	49
51	Evolution of the Bengal Delta and Its Prevailing Processes. Journal of Coastal Research, 2016, 321, 1212-1226.	0.1	72
52	THE EFFECTS OF GEOMORPHIC CHANGES DURING HURRICANE SANDY ON WATER LEVELS IN GREAT SOUTH BAY. , 2015, , .		2
53	River-tide dynamics: Exploration of nonstationary and nonlinear tidal behavior in the Yangtze River estuary. Journal of Geophysical Research: Oceans, 2015, 120, 3499-3521.	1.0	154
54	A validation of an operational wave and surge prediction system for the Dutch coast. Natural Hazards and Earth System Sciences, 2015, 15, 1231-1242.	1.5	20

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55	MORPHODYNAMIC UPSCALING WITH THE MORFAC APPROACH IN TIDAL CONDITIONS: THE CRITICAL MORFAC. Coastal Engineering Proceedings, 2015, 1, 27.	0.1	4
56	Modelling of sedimentation processes inside Roseires Reservoir (Sudan). Earth Surface Dynamics, 2015, 3, 223-238.	1.0	20
57	A 2-D process-based model for suspended sediment dynamics: a first step towards ecological modeling. Hydrology and Earth System Sciences, 2015, 19, 2837-2857.	1.9	22
58	Prediction of ship-ship interactions in ports by a non-hydrostatic model. Journal of Hydrodynamics, 2015, 27, 824-834.	1.3	4
59	Experimental study on fall velocity of fine sediment in the Yangtze Estuary, China. Ocean Engineering, 2015, 103, 180-187.	1.9	27
60	Spectral wave-driven sediment transport across a fringing reef. Coastal Engineering, 2015, 98, 78-94.	1.7	37
61	Exploration of the impact of seasonal river discharge variations on long-term estuarine morphodynamic behavior. Coastal Engineering, 2015, 95, 105-116.	1.7	30
62	The role of river flow and tidal asymmetry on 1â€œ estuarine morphodynamics. Journal of Geophysical Research F: Earth Surface, 2014, 119, 2315-2334.	1.0	87
63	Observation and modeling of the storm-induced fluid mud dynamics in a muddy-estuarine navigational channel. Geomorphology, 2014, 217, 23-36.	1.1	39
64	Nearshore bathymetry from video and the application to rip current predictions for the Dutch Coast. Journal of Coastal Research, 2014, 70, 354-359.	0.1	10
65	Headland structural impacts on surf zone current circulations. Journal of Coastal Research, 2014, 70, 65-71.	0.1	4
66	Probabilistic estimation of storm erosion using analytical, semi-empirical, and process based storm erosion models. Coastal Engineering, 2013, 82, 64-75.	1.7	72
67	Numerical modeling of low-frequency wave dynamics over a fringing coral reef. Coastal Engineering, 2013, 73, 178-190.	1.7	143
68	Stability of Wide-Graded Rubble Mounds. Journal of Waterway, Port, Coastal and Ocean Engineering, 2013, 139, 157-170.	0.5	2
69	Climate-change impact assessment for inlet-interrupted coastlines. Nature Climate Change, 2013, 3, 83-87.	8.1	126
70	Sand bypassing and shoreline evolution near coastal structure, comparing analytical solution and XBeach numerical modelling. Journal of Coastal Research, 2013, 165, 2083-2088.	0.1	13
71	Climate Change Impacts on the Stability of Small Tidal Inlets: A Numerical Modelling Study Using the Realistic Analogue Approach. The International Journal of Ocean and Climate Systems, 2012, 3, 163-171.	0.8	2
72	The morphological response of large tidal inlet/basin systems to relative sea level rise. Climatic Change, 2012, 113, 253-276.	1.7	91

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73	Validation of an advective-deterministic approach to short wave breaking in a surf-beat model. Coastal Engineering, 2012, 60, 69-83.	1.7	24
74	On bar growth and decay during interannual net offshore migration. Coastal Engineering, 2012, 60, 190-200.	1.7	104
75	Modelling morphodynamic response of a tidal basin to an anthropogenic effect: Ley Bay, East Frisian Wadden Sea " applying tidal forcing only and different sediment fractions. Coastal Engineering, 2012, 67, 14-28.	1.7	16
76	QUANTIFYING NEARSHORE MORPHOLOGICAL RECOVERY TIME SCALES USING ARGUS VIDEO IMAGING: PALM BEACH, SYDNEY AND DUCK, NORTH CAROLINA. Coastal Engineering Proceedings, 2012, 1, 24.	0.1	13
77	Process-based, morphodynamic hindcast of decadal deposition patterns in San Pablo Bay, California, 1856-1887. Journal of Geophysical Research, 2011, 116, .	3.3	61
78	Bed composition generation for morphodynamic modeling: case study of San Pablo Bay in California, USA. Ocean Dynamics, 2011, 61, 173-186.	0.9	53
79	Morphodynamic upscaling with the MORFAC approach: Dependencies and sensitivities. Coastal Engineering, 2011, 58, 806-811.	1.7	114
80	A Boussinesq-type wave driver for a morphodynamical model to predict short-term morphology. Coastal Engineering, 2011, 58, 66-84.	1.7	19
81	SHORT WAVE BREAKING EFFECTS ON LOW FREQUENCY WAVES. Coastal Engineering Proceedings, 2011, 1, 20.	0.1	9
82	MONITORING FLUID MUD IN THE NORTH PASSAGE NAVIGATION CHANNEL OF YANGTZE ESTUARY, CHINA. , 2011, , 741-748.		0
83	Two-dimensional time dependent hurricane overwash and erosion modeling at Santa Rosa Island. Coastal Engineering, 2010, 57, 668-683.	1.7	294
84	Morphodynamic modeling of tidal channel evolution in comparison to empirical PA relationship. Coastal Engineering, 2010, 57, 827-837.	1.7	58
85	Modelling storm impacts on beaches, dunes and barrier islands. Coastal Engineering, 2009, 56, 1133-1152.	1.7	1,033
86	Modelled channel patterns in a schematized tidal inlet. Coastal Engineering, 2009, 56, 1069-1083.	1.7	87
87	Consideration on the Sedimentation Process in a Settling Basin. Journal of Hydrology and Hydromechanics, 2009, 57, .	0.7	6
88	WAVE CELERITY FROM VIDEO IMAGING: A NEW METHOD. , 2009, , .		8
89	LONG-TERM PROCESS-BASED MORPHOLOGICAL MODELING OF TIDAL BASINS AND ESTUARIES IN THE NETHERLANDS. , 2009, , .		0
90	MODELING STORM IMPACTS ON BEACHES, DUNES AND BARRIER ISLANDS. , 2009, , .		34

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91	Long-term process-based morphological modeling of the Marsdiep Tidal Basin. <i>Marine Geology</i> , 2008, 256, 90-100.	0.9	129
92	The morphological response of a nearshore double sandbar system to constant wave forcing. <i>Coastal Engineering</i> , 2008, 55, 761-770.	1.7	49
93	Beach Wizard: Nearshore bathymetry estimation through assimilation of model computations and remote observations. <i>Coastal Engineering</i> , 2008, 55, 1016-1027.	1.7	114
94	New analytical equation for dispersion in estuaries with a distinct ebb-flood channel system. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 79, 7-16.	0.9	14
95	Long-term morphodynamic evolution of a tidal embayment using a two-dimensional, process-based model. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	145
96	Long-term morphodynamic evolution and energy dissipation in a coastal plain, tidal embayment. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	71
97	Large-Scale Scour of the Sea Floor and the Effect of Natural Armouring Processes, Land Reclamation Maasvlakte 2, Port of Rotterdam. , 2007, , 598.		0
98	Modeling cross-shore sandbar behavior on the timescale of weeks. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	150
99	Multidirectional wave transformation around detached breakwaters. <i>Coastal Engineering</i> , 2007, 54, 775-789.	1.7	28
100	Vertical Profile of Radiation Stresses for 3D Nearshore Currents Model. , 2006, , 1.		0
101	2DH-Quantification of Surf Zone Bathymetry from Video. , 2006, , 1.		0
102	Coastal morphodynamic evolution techniques. <i>Coastal Engineering</i> , 2006, 53, 277-287.	1.7	399
103	Field and model data analysis of sand transport patterns in Texel Tidal inlet (the Netherlands). <i>Coastal Engineering</i> , 2006, 53, 505-529.	1.7	66
104	Nearshore subtidal bathymetry from time-exposure video images. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	63
105	Vertical flow structure during Sandy Duck: observations and modeling. <i>Coastal Engineering</i> , 2004, 51, 237-260.	1.7	107
106	Development and validation of a three-dimensional morphological model. <i>Coastal Engineering</i> , 2004, 51, 883-915.	1.7	1,438
107	Morphodynamic modeling of an embayed beach under wave group forcing. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	234
108	Hydrodynamic Validation of Delft3D with Field Measurements at Egmond. , 2001, , 2714.		15

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109	Morphodynamic Response to Wave Group Forcing. , 2001, , 3218.		3
110	Verification of a One-Dimensional Surfbeat Model Against Laboratory Data. , 1993, , 960.		2
111	Sand Transport on the Shoreface of the Holland Coast. , 1991, , 1909.		2
112	Transition Zone Width and Implications for Modelling Surfzone Hydrodynamics. , 1991, , 68.		8
113	Sediment Transport on Nearly-Prismatic Beaches. , 1989, , 1736.		0
114	Barâ€generating crossâ€shore flow mechanisms on a beach. Journal of Geophysical Research, 1989, 94, 4785-4800.	3.3	334
115	Reconstruction of Directional Spectra of Infragravity Waves. Journal of Geophysical Research: Oceans, 0, , .	1.0	1